

HOW TO MAKE THE QA, BCO AND PLOTS?

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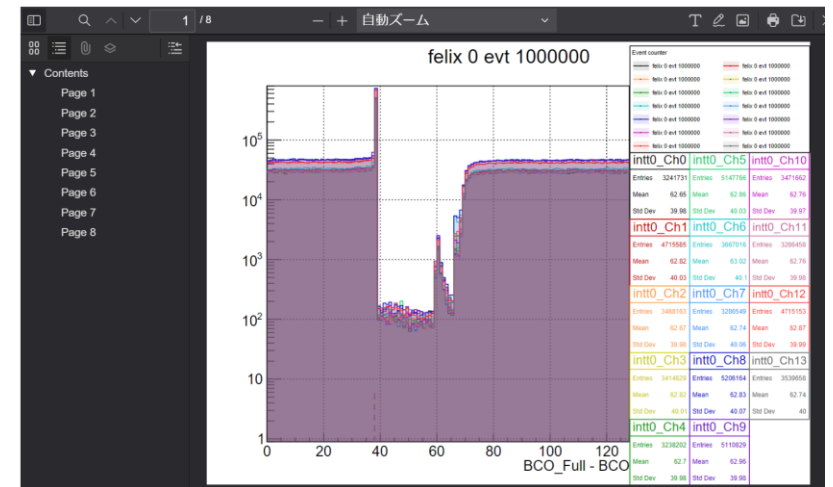
background

- In the INTT Japanese meeting on July 11th, I was asked to present the way of checking the QA plot for BCO peak.

QA plot of BCO difference on Jun 13th
so Let's check it together!

BCO difference cut

Hide/Show



We have 2 options

- We have two ways,
 1. Use Genki's framework on 1008 PC.
 - → just click a couple of buttons.
 2. Use your terminal and use Genki's macro.
 - → everyone can check QA and batch job status everywhere.

Use your terminal and use Genki's macro.

① ssh sphnx01

② cd

/direct/sphenix+tg+tg01/commissioning/INTT/commissioning_production/condorjobsintt

③ ./submitjobs_general_DST.sh **Run number** 42203 **0** false **DST-all** **DST-INTRAW-bco-diff also ok**

Event number;

0 means all events

```
-bash-4.2$ ./submitjobs_general_DST.sh 47892 0 false DST-all
4
47892 0 false DST-all
4
47892 0 false DST-all

usage: ./executable_general_DST.sh [run_number] [processed_event_num] [make own DST] [process type]
[run_number]      : The run to be processed.
[processed_event_num]: The number of events to be processed. The default value is all events in the file.
                   If you set -1, it means dry run (nothing done for debugging).
[use official DST] : A flag to use the official DST (true) or ours (false) (default: false). If it's false, a DST containing INTRAWHIT is
                   : generated. If the official DST is not found, this job is stopped.
[process type]    : Choice of process. It can be
                   DST-all DST-INTRAW DST-INTRAW-hitmap DST-INTRAW-hot-ch DST-INTRAW-bco-diff DST-TrkrCluster DST-INTRAW-QA DST-Trkr-QA DST-G11-INTRAW
debug
```

Use your terminal and use Genki's macro

③ source

```
/direct/sphenix+tg+tg01/commissioning/INTT/repositories/libraries/intt_
setup_v2.sh
```

④ intt_felix_viewer --homepage --run 42403

⑤ check this site

https://sphenix-intra.sdcc.bnl.gov/WWW/subsystem/intt/commissioning_plots/2024/00045557/index.html

Run number

⑥ if you can't see the plots, check the log file.

```
log_dir="/sphenix/user/${USER}/INTT/commissioning_production/condorjobsintt/
```

The output is shown below, but the directory below this point is written in submitjobs_general_DST.sh.

```
check_argument $@

#log_dir=${dir}"/logfiles_general_DST/"
log_dir="/sphenix/user/${USER}/INTT/commissioning_production/condorjobsintt/logfiles_general/p_p_timing_scan/"

if [ ! -e "${log_dir}" ]; then
    mkdir -p $log_dir
fi

file_basename=`basename $line .evt`
timing=`date +%Y%m%d_%H%M%S`

log_base="run${run_num}"
if [ "${event_num}" -eq 0 ]
then
    log_base="${log_base}"
else
    log_base="${log_base}_${event_num}events"
fi #if [ "${event_num}" -eq 0 ]

if [ "${dst_production}" == "true" ]
then
    log_base="${log_base}_DST_production"
else
    log_base="${log_base}_using_official_DST"
fi

log="${log_dir}log_${log_base}_${timing}.log"
out="${log_dir}stdout_${log_base}_${timing}.log"
err="${log_dir}stderr_${log_base}_${timing}.log"

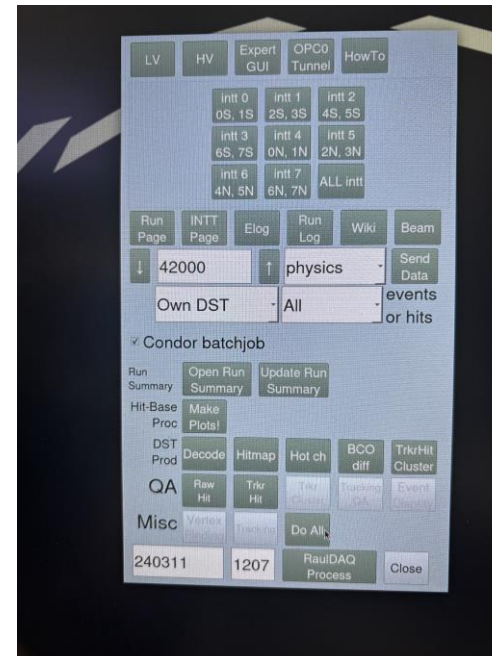
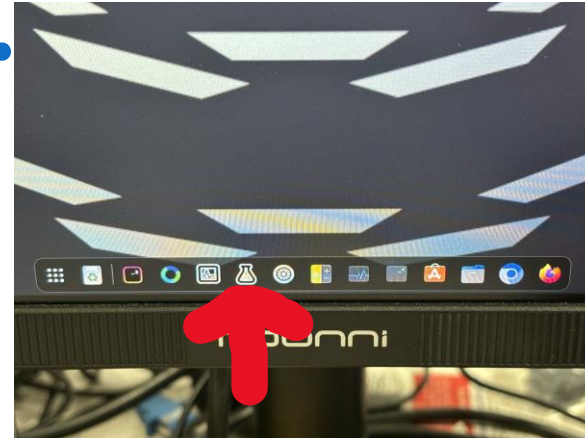
# for debugging
job_config=${dir}/start_general_DST.sub

#condor_submit -dry-run ${job_config} \
condor_submit ${job_config} \
    -a "Arguments = $run_num $event_num $dst_production $process_type" \
    -a "output = $out" \
    -a "error = $err" \
    -a "log = $log"
```

(END)

Use Genki's set up on 1008 PC

- 1 Go to 1008.
- 2 Click the flask icon.
- 3 Type the run number.
- 4 Select the physics.
- 5 select own DST,
- 6 Check the Condor batchjob
- 7 Click Do all.



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